Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application:

(original) A digital video signal decoding system comprising:

 a video signal decoder for decoding a compressed encoded digital
 video signal during which at least one piece of compressed domain
 information is generated; and

a watermark inserter for generating a watermark signal whose strength is derived from the at least one piece of compressed domain information.

2. (original) A digital video signal decoding system of claim 1, wherein the video signal decoder comprises:

an entropy decoder for receiving a compressed encoded digital video signal and providing a decoded bit stream thereof;

an inverse quantizer for dequantizing the decoded data from the entropy decoder into dequantized code;

an inverse block transform decoder for transforming the dequantized code into pixel information;

a motion compensator for receiving the pixel information from the block transform decoder and providing a motion-compensated predictedpicture data stream; and

a summer for summing the motion-compensated predicted-picture data stream and the pixel information into a decompressed decoded video output signal.

3. (original) The digital signal decoder system of claim 1, wherein the watermark inserter comprises:

a watermark signal generator for creating a watermark signal; and an adder for adding one of the plurality of pre-generated watermark signals to the decompressed decoded video output of the digital signal decoder system.

- 4. (original) The digital signal decoder system of claim 1, wherein the watermark inserter comprises:
 - a watermark signal generator for creating a watermark signal;
- a memory unit for storing a plurality of pre-generated watermark signals, and

an adder for adding one of the plurality of pre-generated watermark signals to the decompressed decoded video output of the digital signal decoder system.

- 5. (original) The digital signal decoder system of claim 2, wherein the at least one piece of compressed domain information is provided by the entropy decoder.
- 6. (original) The digital signal decoder system of claim 5, wherein the at least one piece of compressed domain information is a count of the number of coded transform coefficients in the decoded bit stream's data blocks.
- 7. The digital signal decoder system of claim 2, wherein the at least one piece of compressed domain information is provided by the inverse quantizer.
- 8. (original) The digital signal decoder system of claim 7, wherein the at least one piece of compressed domain information are values of non-DC transform coefficients in the dequantized code.
- 9. (original) The digital signal decoder system of claim 2, wherein the at least one piece of compressed domain information is provided by the output of the summer.
- 10. (original) The digital signal decoder system of claim 9, wherein the at least one piece of compressed domain information is absolute luminance DC values of data blocks in the pixel information.

- 11. (original) A digital signal decoder system of claim 2, wherein the watermark signal contains a unique identifier information.
- 12. (original) A digital signal decoder system of claim 11, wherein the unique identifier information includes information regarding a copyright license associated with the digital video signal's content.
- 13. (original) A digital signal decoder system of claim 11, wherein the unique identifier information includes a device specific indicator that will identify the particular video decoder system.
- 14. (original) A digital signal decoder system of claim 1, wherein the compressed encoded digital video signals are compressed utilizing a video compression standard from the group comprising MPEG-1, MPEG-2, MPEG-4, JVT, H.264, MPEG AVC or H.263
- 15. (original) A method of watermarking a digital video signal comprising: decoding a compressed encoded digital video signal into a decompressed decoded video output during which at least one piece of compressed domain information is generated;

generating a watermark signal whose strength is derived from the at least one piece of compressed domain information; and

adding the watermark signal to the decompressed decoded video output.

16. (original) A method of claim 15, wherein the step of generating a watermark signal comprises:

receiving the at least one piece of compressed domain information at a watermark signal generator; and

determining the strength of the watermark signal to be generated based on selected attributes of the at least one piece of compressed domain information.

17. (original) A method of claim 15, wherein the step of decoding a compressed encoded digital video signal includes receiving the compressed encoded digital video signal at an entropy decoder and providing a decoded bit stream thereof; and

the at least one piece of compressed domain information is a count of the number of coded transform coefficients in the decoded bit stream's data blocks.

18. (original) A method of claim 15, wherein the step of decoding a compressed encoded digital video signal includes receiving the compressed encoded digital video signal at an entropy decoder and providing a decoded bit stream thereof; and

the at least on piece of compressed domain information is perceptual slack for the coded transform coefficients in the decoded bit stream's data blocks.

19. (original) A method of claim 15, wherein the step of decoding a compressed encoded digital video signal includes:

receiving the compressed encoded digital video signal at an entropy decoder and providing a decoded bit stream thereof; and

dequantizing the decoded bit stream into dequantized code; and the at least one piece of compressed domain information are values of non-DC transform coefficients in the dequantized code.

20. (original) A method of claim 15, wherein the step of decoding a compressed encoded digital video signal includes:

receiving the compressed encoded digital video signal at an entropy decoder and providing a decoded bit stream thereof;

dequantizing the decoded bit stream into dequantized code; and transforming the dequantized code into pixel information; and the at least one piece of compressed domain information is absolute luminance DC values of data blocks in the pixel information.

- 21. (original) A method of claim 20, wherein the at least one piece of compressed domain information is the difference in luminance DC values between a data block and its neighboring data blocks.
- 22. (original) A method of claim 15, wherein the step of decoding a compressed encoded digital video signal into a decompressed decoded video output includes generation of reference pictures for use in forming predictions of later coded pictures; and

storing the watermark signals in a first memory unit and storing the reference pictures in a second memory unit, wherein the step of adding the watermark signal to the decompressed decoded video output includes retrieving the stored watermark signals from the first memory unit.

- 23. (original) A method of claim 15, wherein the watermark signal contains a unique identifier information.
- 24. (original) A method of claim 23, wherein the unique identifier information includes information regarding a copyright license associated with the digital video signal's content.
- 25. (original) A digital signal decoder system of claim 23, wherein the unique identifier information includes a device specific indicator that will identify the particular video decoder system.
- 26. (original) A digital signal decoder system of claim 15, wherein the compressed digital video signal is compressed using a compression process applying deblocking filtering and the at least one piece of compressed domain information is the deblocking filtering strength for a particular block transition.

27. (original) A method of watermarking a digital video signal comprising: generating a plurality of watermark signals, each watermark signal having different strength;

storing the plurality of watermark signals in a memory unit;
decoding a compressed encoded digital video signal into a
decompressed decoded video output during which at least one piece of
compressed domain information is generated;

selecting a watermark signal from the plurality of watermark signals stored in the memory unit based on the at least one piece of compressed domain information; and

adding the selected watermark signal to the decompressed decoded video output.

- 28. (original) A method of claim 27, wherein the watermark signal contains a unique identifier information.
- 29. (original) A method of claim 28, wherein the unique identifier information includes information regarding a copyright license associated with the digital video signal's content.
- 30. (original) A digital signal decoder system of claim 28, wherein the unique identifier information includes a device specific indicator that will identify the particular video decoder system.